Bernardo José Villegas Moreno

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SUMMARY

I work at the intersection of AI research, social science, and tech development. My focus is twofold: measuring and understanding AI's social impacts, and developing technology that genuinely serves human needs and enhances human capabilities. Technology, and AI in particular, is shaping how societies develop. My work ensures these systems are designed with clarity about their impact on individuals and communities, creating solutions that are both technically robust and socially meaningful.

EDUCATION

Oct 2025 - present	**PhD in Human-Inspired Artificial Intelligence** Center for Human-Inspired Artificial Intelligence (CHIA) University of Cambridge, UK Supervisor: Dr. Umang Bhatt Co-Supervisor: Prof. Anna Korhonen
Sep 2021 - Nov 2023	**MSc Data Science, Technology and Innovation** College of Science and Engineering The University of Edinburgh, UK First-Class Honours (with Distinction) Supervisor: Dr. Gian Marco Campagnolo MSc Dissertation: A social data science metric for machine learning interpretability
Jun 2014 - Jun 2019	**BA in Sociology with mention in Development** Pontificia Universidad Católica del Ecuador Quito, Ecuador First-Class Honours (10/10) Dissertation: Hacia el estudio del campo de las élites económicas del Ecuador contemporáneo... President of Student Federation (2018) and Superior Council Representative (2017)

WORK EXPERIENCE

General Information Coordinator – Academic Evaluation Officer　　　　Sep 2019 - present
– Vice-Rectorate of Academic Affairs and Student Services, Pontificia Universidad Católica del Ecuador, Quito
– Provide strategic advisory to the Vice-Rectorate of Academic Affairs and Student Services, coordinate execution of high-relevance institutional projects, and supervise key activities related to Teaching and Student management across 7 university campuses (Quito, Amazonas, Ambato, Esmeraldas, Ibarra, Manabí, and Santo Domingo)
– Interdisciplinary background in social sciences combined with technical capabilities in information management, artificial intelligence application development, and data intelligence constitutes a key factor in institutional contribution
– Previously served as Data Analyst (until 2020), Scholarships and Economic Benefits Specialist (until 2022), and Coordinator of the General Directorate of Students (until 2024)

Associate Data Intelligence Consultant   Feb 2019 - Aug 2019

- Diozen Integral Consulting by Results, Quito, Ecuador
- Implemented multidisciplinary projects related to business management from a data analysis and visualization perspective
- Participated in projects with companies in Insurance (Tecniseguros), Health (InstaSalud, PUCESalud) and Social Entrepreneurship (U.S. Changemakers, funded by the U.S. Embassy in Ecuador)

RESEARCH PROJECTS

Human-Centered Explainability   2025 (ongoing)

Designing Interrogable Interfaces for Trustworthy and Transparent AI. With Umang Bhatt (Univ. of Cambridge) and Anna Korhonen (Univ. of Cambridge - Alan Turing Institute). PhD Dissertation (forthcoming).

AI-Externalities   2025 (ongoing)

Large-scale, multi-domain study and open-source platform to track the longitudinal effects of AI assistance in Human-Human. With Umang Bhatt (Univ. of Cambridge), Katherine Collins (Univ. of Cambridge – MIT), Siobhan Hall (University of Oxford), et. al

ML Interpretability Metric   2024

A social-data-science metric for ML interpretability (University of Edinburgh - Alan Turing Institute). With Gian Marco Campagnolo, Rob Procter, Felix van Lier, and Miguel Arana-Catania. [Under peer review] Campagnolo G.M.; Procter R.; Villegas B.; van Lier F-A; Arana-Catania M. (2025) "Algorithmic encounters: an interactional framework for AI interpretability". AI & Society

Academic Performance Determinants   2023

Exploratory study on determinant factors of academic performance of undergraduate students at Pontificia Universidad Católica del Ecuador (Quito). With Lorena Araujo, Edwin Buenaño, and Francisco Morales. [Published] Buenaño E.; Araujo L., Villegas B., Morales F. (2025) "The determinant factors of academic performance of university students in Ecuador. A multilevel longitudinal study". Journal of Hispanic Higher Education

AI and International Arbitration   2021

With Javier Jaramillo (Universidad San Francisco de Quito) and David Molina (Univ. of Geneva). [Published] Jaramillo, J.; Molina, D. & Villegas, B. (2021) Will Artificial Intelligence (AI) overcome professional experience? Applications of AI and Legal Analytics in International Commercial Arbitration. In: Chipana, Catalán & Mauricio Duarte. Arbitration and New Technologies. Lima: Themis, Legal Publishing House.

Economic Elite Networks in Ecuador   2020

Social network analysis of shareholder networks in top 100 companies. With Francisco Morales (PUCE). [Published] Villegas, B. & Morales F. (2021) The economic elites of contemporary Ecuador: analysis of shareholder networks of the 100 companies with the highest income, before and at the end of Rafael Correa's government (2007-2016). Redes. Revista Hispana para el análisis de redes sociales. 32(1): 1-15. DOI: https://doi.org/10.5565/rev/redes.887

Socio-Ecological Systems   2018

An interdisciplinary view of the slopes of Pichincha. With Andrea Muñoz (PUCE). Villegas, B., Muñoz, A. (2018). Walking Interviews & spatial transcripts to grasp urban experience. 1st National Geography Congress. Quito: PUCE. Villegas, B., Muñoz, A., Bonilla, A. (2017). Walking Interviews as an interdisciplinary research tool. 1st Urban Studies Congress. Quito: FLACSO.

Theorein Journal 2016-2025 (ongoing)

Co-Founder and Editorial Coordinator of Theorein. Revista de Ciencias Sociales (PUCE). With Associate Editors Sebastián Raza (University of Cambridge) and Jorge Daniel Vasquez (American University). www.revistatheorein.com

Leadership Experience

Oct 2018 - Oct 2020	**General Secretary**	
	Federation of Private University Students of Ecuador (FEUPE)	
Jan 2018 - Jan 2019	**President**	
	Student Federation of Pontificia Universidad Católica del Ecuador (FEUCE)	

Skills

Languages	Spanish (Native), English (C1 IELTS - Proficient in Reading, Writing, Listening, and Speaking)
Technical Skills	Data Science, Machine Learning, Artificial Intelligence, Social Network Analysis, Data Visualization, Statistical Analysis, Natural Language Processing
Research Areas	Explainable AI, Human-Computer Interaction, Participatory Design, Social Data Science, Higher Education Policy, AI Ethics

Awards & Recognition

2023	MSc Distinction - University of Edinburgh
2021	Fondo Publícalo Award - Recognition promoting dissertation publication (PUCE)
2015	Academic Merit Recognition - Second Semester 2015 (PUCE)
2014	SNNA Scholarship - Awarded for ENES exam score (Sierra Region 2014)